



PCT

## RAW SEQUENCE LISTING

DATE: 04/12/2005

PATENT APPLICATION: US/10/530,083

TIME: 08:55:31

Input Set : A:\119 Sequence Listing.ST25.txt

Output Set: N:\CRF4\04122005\J530083.raw

3 <110> APPLICANT: Sung, Moon-Hee  
4 Poo, Ha Ryoung  
5 Lee, Jong-Soo  
6 Jung, Chang-Min  
7 Hong, Seong-Pyo  
8 Kim, Chul-Joong  
9 Park, Sue-nie  
10 Pyo, Hyun-mi  
12 <120> TITLE OF INVENTION: VECTOR FOR ANTI-HPV VACCINE AND TRANSFORMED MICROORGANISM BY  
THE  
13 VECTOR  
15 <130> FILE REFERENCE: 4240-119  
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/530,083  
18 <141> CURRENT FILING DATE: 2005-04-01  
20 <150> PRIOR APPLICATION NUMBER: KR 10-2002-0063378  
21 <151> PRIOR FILING DATE: 2002-10-17  
23 <160> NUMBER OF SEQ ID NOS: 11  
25 <170> SOFTWARE: PatentIn version 3.2  
27 <210> SEQ ID NO: 1  
28 <211> LENGTH: 1182  
29 <212> TYPE: DNA  
30 <213> ORGANISM: Bacillus subtilis  
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37 ggaaaatcga ctgtgacaag gctgacaacc ggaatattaa tagaagccgg ttacaagact 180  
39 gttggaaaaa caacaggaac agatgcaaga atgatttact gggacacacc ggaggaaaaa 240  
41 ccgattaaac ggaaacctca ggggccgaat atcggagagc aaaaagaagt catgagagaa 300  
43 acagtagaaa gaggggctaa cgcgattgtc agtgaatgca tggctgttaa ccagattat 360  
45 caaatcatct ttcaggaaga acttctgcag gccaatatcg gcgtcattgt gaatgtttta 420  
47 gaagaccata tggatgtcat ggggccgacg cttgatgaaa ttgcagaagc gtttaccgct 480  
49 acaattcctt ataattggcca tcttgtcatt acagatagtg aatataccga gttctttaaa 540  
51 caaaaagcaa aagaacgaaa cacaaaagtc atcattgctg ataactcaaa aattacagat 600  
53 gagtatattac gtaattttga atacatggta ttccctgata acgcttctct ggcgctgggt 660  
55 gtggctcaag cactcggcac tgacgaagaa acagcattta agggaatgct gaatgcgccg 720  
57 ccagatccgg gagcaatgag aattcttccg ctgatcagtc cgagcgagcc tgggcacttt 780  
59 gttaatgggt ttgccgcaaa cgacgcttct tctactttga atatattgaa acgtgtaaaa 840  
61 gaaatcggtt acccgaccga tgatccgatc atcatcatga actgccgcgc agaccgtgtc 900  
63 gatcgacac agcaattcgc aaatgacgta ttgccttata ttgaagcaag tgaactgatc 960  
65 ttaatcggtg aaacaacaga accgatcgta aaagcctatg aagaaggcaa aattcctgca 1020  
67 gacaaactgc atgcctaga gtataagtca acagatgaaa ttatggaatt gttaaagaaa 1080  
69 agaattgcaca accgtgtcat atatggcgtc ggcaatattc atggtgccgc agagccttta 1140  
71 attgaaaaaa tccacgaata caaggtaaag cagctcgtaa gc 1182  
74 <210> SEQ ID NO: 2

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84 tttaatcagc cgggtctttat ttactttgtt ttgctagtga gcttgctcac ttatgttatc 180
86 gtgaaatacg gtttatccaa atttatgatt ttgtacggac gcagaaaatt cgctgccatg 240
88 ctgataacag ggatcgctct aaaaatcgcg ttgtattttc tatacccgat tgtaccattt 300
90 gaaatcgag aatttcgagg aatcggcac atcgtgccag gtttaattgc caataccatt 360
92 cagaaacaag gtttaacat tacgttcgga agcacgtgc tattgagcgg agcgaccttt 420
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107 atgtgggcgg gaaaagcggg aacgccgaag gtcaaaacgt attctgacga cgtactctca 180
109 gcctcatttg taggcgatat tatgatggga cgctatgttg aaaaagtaac ggagcaaaaa 240
111 ggggcagaca gtatttttca atatgttgaa ccgatcttta gagcctcgga ttatgtagca 300
113 ggaaactttg aaaaccgggt aacctatcaa aagaattata aacaagcaga taaagagatt 360
115 catctgcaga cgaataagga atcagtgaaa gtcttgaaagg atatgaattt cacggttctc 420
117 aacagcgcca acaaccacgc aatggattac ggcgttcagg gcatgaaaga tacgcttgga 480
119 gaatttgcca agcaaaacct tgatatcggt ggagcgggat acagcttaag tgatgcgaaa 540
121 aagaaaattt cgtaccagaa agtcaacggg gtaacgattg caacgcttgg ctttaccgat 600
123 gtgtccggga aaggtttcgc ggctaaaaag aatacgccgg gcgtgctgcc cgcagatcct 660
125 gaaatcttca tccctatgat ttcagaagcg aaaaaacatg ctgacattgt tgttgtgcag 720
127 tcacactggg gccaaagata tgacaatgat ccaaacgacc gccagcgcca gcttgcaaga 780
129 gccatgtctg atcggggagc tgacatcatc gtcggccatc atccgcacgt cttagaaccg 840
131 attgaagtat ataacggaac cgtcattttc tacagcctcg gcaactttgt ctttgaccaa 900
133 ggctggacga gaacaagaga cagtgcactg gttcagtatc acctgaagaa aaatggaaca 960
135 ggccgctttg aagtgcacac gatcgatatc catgaagcga cacctgcacc tgtgaaaaaa 1020
137 gacagcctta aacagaaaac cattattcgc gaactgacga aagactctaa tttcgcttgg 1080
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156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
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166 <210> SEQ ID NO: 6
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168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Synthetic Construct
174 <400> SEQUENCE: 6
175 cgcggatccc caggaggat gcat 24
178 <210> SEQ ID NO: 7
179 <211> LENGTH: 29
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
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191 <211> LENGTH: 29
192 <212> TYPE: DNA
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196 <223> OTHER INFORMATION: Synthetic Construct
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199 ctgggatccc aaggtatggt gcccgtttg 29
202 <210> SEQ ID NO: 9
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204 <212> TYPE: DNA
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216 <212> TYPE: DNA
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223 gcacatatgt tcggatcaga ttatacatc 30
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227 <211> LENGTH: 30
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
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234 &lt;400&gt; SEQUENCE: 11

235 ctcggatcct ttagatttta gtttgtcact

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VERIFICATION SUMMARY

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L:17 M:270 C: Current Application Number differs, Replaced Current Application Number